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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/600,295	06/20/2003	John Wu	45235.00007	6301

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EXAMINER	
LY, ANH VU H	

ART UNIT	PAPER NUMBER
2667	

DATE MAILED: 09/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/600,295	WU ET AL.	
	Examiner	Art Unit	
	Anh-Vu H Ly	2667	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☐ Responsive to communication(s) filed on _____.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) 1-47 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) 1-47 is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Claim Objections

1. Claims 1 and 4 are objected to because of the following informalities:

With respect to claim 1, in line 5, examiner believes "package switched" should be changed to - -packet switched- -.

With respect to claim 4, in line 3, examiner believes "package switch registration" should be changed to - -packet switch registration- -.

Applicant is requested to review and correct any ambiguities presented in other pending claims. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-47 are rejected under 35 U.S.C. 102(e) as being anticipated by Johansson et al (US Pub 2002/0089968 A1). Hereinafter, referred to as Johansson.

With respect to claims 1, 25, and 39, Johansson discloses in Figs. 1 and 2, a GSM network 10, which includes a GPRS service for handling packet data traffic. However, it should be understood that GSM network also includes MSC for handling circuit switched traffic to and from PSTN network (not shown), as known in the art (a circuit switch network). Johansson discloses on page 6, 1st col., that if the GPRS station 20 determined not to have a valid IP

address, the application requests the GSM/GPRS network 10 to activate a packet data service to be used by the GPRS station 20. Then the GPRS application receives a dynamically allocated IP address from the GSM/GPRS network 10 (a packet switch data network configured to assign network addresses n a dynamic fashion). Johansson discloses in Figs. 1 and 2 that the GPRS station 20 communicates with the server 30 via the GSM network 10 (a client device configured to send and receive packet switched and circuit switched communications over the packet switched data network and circuit switched network, respectively). Johansson discloses on page 5, 55th – 56th paragraphs, that the server 30 (central authority) connects to the Short Message Service Center (SMS-C) and submits a request to the SMS-C 40 to transmit an SMS short message to a GPRS mobile station 20 having a particular Mobile Station Integrated Services Digital Network (MSISDN) number. The payload part of the SMS message includes a request for information relating to the radio transferring capabilities of the addressed GPRS station and further includes server's 30 IP address and server's 30 port number to be used for when setting up a TCP/IP based connection towards the server 30. The SMS-C 40 sends an SMS message to the GPRS station 20 through the GSM/GPRS network 10 over a GSM signaling channel (a central authority configured to send a circuit switch message to the client device through the circuit switched network requesting that the client device register with the central authority through the packet switch network) or on a GPRS traffic channel in accordance with state of the art techniques.

With respect to claims 2 and 26, Johansson discloses in Fig. 2, SMS short message is used as a request (wherein the circuit switch message sent to the client device is a short message service message).

With respect to claims 3, 10, 19, 27, and 43, Johansson discloses on page 6, 58th paragraph that the GPRS application prepares a response message to be transmitted to the server 30. This response message is now transmitted over the established TCP/IP connection (wherein the central authority is further configured to receive a packet switched registration message from the client device in response to the circuit switched message sent to the client device).

With respect to claims 4, 11, 28, and 40, Johansson discloses on page 6, 59th paragraph that the server application extracts and analyses the included information in the response message. Herein, the message is TCP/IP message therefore it includes the network address of the GPRS station 20 (wherein the central authority is further configured to extract a packet data network address associated with the client device from the packet switch registration message received from the client device).

With respect to claims 5 and 29, Johansson discloses in Fig. 2 that the server 30 includes memory for storing information relating to the GPRS station 20, which includes the updated network address of the GPRS station 20 for communicating data to the GPRS station 20 (wherein the central authority comprises a database configured to store information related to the client device and wherein the central authority is configured to update the data stored in the

database based on the information contained in the received packet switched registration message).

With respect to claims 6, 24, and 30, Johansson discloses on page 6, 59th paragraph that the server application extracts, analyses, and stores the included information in the response message in server's memory (Figs. 1 and 2) (wherein the central authority is further configured to update the information stored in the database on the packet data network address extracted from the received packet switch registration message).

With respect to claims 7 and 31, Johansson discloses in Fig. 1 that the server 30 sends a request to the GPRS station 20 via TCP/IP connection. Herein, the server already knows the network address of the GPRS station 20 as stored in its database (wherein the central authority is further configured to send a message to the client device using the packet data network address stored in the database).

With respect to claims 8-9 and 32-33, Johansson discloses on page 5, 55th – 56th paragraphs, that the server 30 (central authority) connects to the Short Message Service Center (SMS-C) and submits a request to the SMS-C 40 to transmit an SMS short message to a GPRS mobile station 20 having a particular Mobile Station Integrated Services Digital Network (MSISDN) number (mobile identification number associated with the client device) (wherein the central authority is further configured to send the circuit switched message to the client device using a circuit switched network address associated with the client device).

With respect to claims 12 and 41, Johansson discloses in Fig. 1, that the GPRS station sends a message to the server 30, which includes the currently updated network address (wherein the client device is further configured to send a new packet switched registration message whenever the packet switched data network assigns the client device a new packet switched network address).

With respect to claim 13, Johansson discloses on page 5, 55th – 56th paragraphs, that the server 30 (central authority) connects to the Short Message Service Center (SMS-C) and submits a request to the SMS-C 40 to transmit an SMS short message to a GPRS mobile station 20 having a particular Mobile Station Integrated Services Digital Network (MSISDN) number (wherein the central authority is further configured to send a new circuit switch message to the client device if the client device has not communicated with the central authority for a predetermined time).

With respect to claims 14 and 34, Johansson discloses on page 5, 56th paragraph, that the SMS message could include an activate code and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds (comprising a shared secret that is shared between the client device and the central authority, wherein the shared secret is used for authentication).

With respect to claims 15 and 35, Johansson discloses on page 5, 56th paragraph, that the SMS message could include an activate code (wherein the central authority is further configured

to encrypt the circuit switched message sent to the client deice using the shared secret) and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds.

With respect to claims 16 and 36, Johansson discloses on page 5, 56th paragraph, that the SMS message could include an activate code (wherein the central authority comprises a random or pseudo-random number generator and wherein the circuit switched message sent to the client device includes a random or pseudo-random number generated by the random or pseudo-random number generator) and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds.

With respect to claims 17 and 37, Johansson discloses on page 5, 56th paragraph, that the SMS message could include an activate code (wherein the central authority is further configured to encrypt the circuit switched message sent to the client device using a random or pseudo-random number generator by the random or pseudo random number generator) and if the code corresponds to a predefined code which is accepted by the application, the application processing proceeds.

With respect to claims 18-19 and 42-43, Johansson discloses on page 5, 56th paragraph that if the activation code is present, the application extracts the payload of the SMS message and examines the request (wherein the client device is further configured to receive the circuit switched message sent by the central authority and to decrypt the circuit switched message).

With respect to claims 20 and 44, Johansson discloses on page 6, 59th paragraph, that the recognition is based on information which the GPRS station 20 has included in the response message, e.g., the MSISDN or a request code originally generated and included in the request by the server application (wherein the client device is further configured to encrypt the packet switch registration message using the random or pseudo-random number extracted from the decrypted circuit switched message).

With respect to claims 21, 38, and 45, Johansson discloses on page 6, 59th paragraph, that the recognition is based on information, which the GPRS station 20 has included in the response message, e.g., the MSISDN or a request code originally generated and included in the request by the server application (wherein the client device further comprises an authentication factor and wherein the client device is further configured to include the authentication factor in the packet switched registration message sent to the central authority).

With respect to claims 22-23 and 46-47, Johansson discloses on page 6, 59th paragraph, that the recognition is based on information, which the GPRS station 20 has included in the response message, e.g., the MSISDN (the authentication factor is an electronic serial number associated with the client device and/or a mobile identification number associated with a client device).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bertacchi (US Patent No. 6,625,461 B1) discloses method and system for providing compatibility between telecommunication networks using different transmission signaling systems.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh-Vu H Ly whose telephone number is 571-272-3175. The examiner can normally be reached on Monday-Friday 7:00am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

avl

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